



CONSTRUCTION FOAM

DESCRIPTION.

Kingfisher Construction Foam is a specially formulated, one component polyurethane foam for a wide range of applications in the construction industry. It contains an environmentally safe propellant which conforms to the latest EU regulations relating to CFC propellants.

AREAS of APPLICATION.

The product is typically used for insulation and sealing of window frame joints and sills.. It can also be used for fastening of wooden door frames, for insulating and filling gaps and cavities, around pipes and conduits in air conditioning, sanitary, heating and electrical installations as well as for fixing prefab and insulation panels.

PROPERTIES.

Fresh foam adheres to all common building materials **except** surfaces such as silicone, polyethylene, oil, grease, mould release agents and similar substrates.

Kingfisher Construction Foam can be applied at temperatures from 5°C to approx 25°C. (This refers to can, ambient and surface temperatures). Sufficient humidity is required to ensure correct curing of the polyurethane foam.

The cured foam is semi-rigid and predominantly close celled. It is resistant to temperatures within the range of -(minus)40°C to +100°C. It is also resistant to ageing but not to the effects UV-rays.

The product possess excellent noise and heat insulation properties and values.

PREPARATION

Surfaces must be clean, firm and free from dust, grease loose particles and mould release agents.

Dampen the surfaces thoroughly with water before applying the foam. Humidity is essential for an even and proper curing of the foam. Atmospheric humidity is not sufficient for the chemical curing process.

Expansion will be aided by dampening each layer of fresh foam during application.

Optimum temperature for both the product and the surfaces to which it is being applied is approximately 20°C. If the foam container is below 5°C, stand it in luke warm* water. *(Never above 50°C).

Container must not be stored in direct sunlight or near sources of heat.

In Summer the container may be cooled if necessary. Shake the container occasionally to ensure even temperature distribution.

Screw the adaptor, with its extension tube firmly onto the stem. Do not over tighten.

Caution ! take care not to operate the container valve accidentally.

Shake the can vigorously at least 20 times before starting the application.

APPLICATION.

Extrude the foam by tilting the adapter whilst holding the container upside down. The flow rate can be controlled accurately by varying the finger pressure on the adapter lever. The fresh foam will expand by approximately 100 – 150%. The extrusion therefore must be controlled carefully. Overfilling a joint or gap may result in the curing process being prolonged.

Insufficient humidity may cause delayed, unwanted expansion later on. Fresh foam spills must be removed immediately with an appropriate solvent .

Note:- Cured foam can only be removed mechanically.

PACKAGING

Kingfisher Construction Foam is available in 750ml tubular metal containers in packs of 6 or 12.

TECHNICAL DATA (at 20 °C, 60% humidity, surfaces dampened)

Yield, free expanded @ bulk density 18kg/m ³ , 750 ml can.....	35 litres (approx)
Raw Density (confined space).....	25 kg/m (approx)
Cell Structure.....	Medium – fine.
Tack free.....	10 mins (approx)
Cuttable (20mm bead).....	30 mins (approx)
Full load bearing stability (20mm bead)..... after	12 hours (approx)
Min working temperature. (Container, application surfaces etc)....	+5 °C
Max. working temperature. (Container, application surfaces etc)....	+25 °C
Optimum working temperature(Container, application surfaces etc.)	+20 °C
Tensile Strength.....	18 N/cm ² (DIN 53455)
Elongation of Tension.....	30% (DIN 53455)
Shear Strength.....	8 N/cm ² (DIN 53422)
Bonding Strength.....	20 N/cm ² (DIN 53423)
Compressive Strength @ 10% stress.....	5 N/cm ² (DIN 53421)
Water Absorption.....	0.3% vol. (DIN 53428)
Thermal conductivity.....	0.04 W/mK (DIN 52612)
Temperature resistance of the cured bead.	
Long term.....	-40 °C to +100 °C
Short term.....	-40 °C to +130 °C
Shelf Life.....	9 months.

Note:-

Store and transport in cool, dry conditions. Considerably higher temperatures may reduce shelf life.

CAUTION. If stored in direct sunlight the material will expand and the can may rupture.

For further Health and Safety information on this product please refer to the Kingfisher Safety Data Sheet, copies of which are available from the Kingfisher Technical Dept. Tel. 01229 869100 or Fax 01229 868101.